

Energy Minerals and Natural Resources Department

Oil Conservation Division

2040 South Pacheño Street
Santa Fe, New Mexico 87505
(505) 827-7131

SUBMIT ORIGINAL
PLUS 2 COPIES
TO APPROPRIATE
DISTRICT OFFICE

District I - (505) 393-6161
625 N. French Dr
Hobbs, NM 88241-1980
District II - (505) 748-1281
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

APPLICATION FOR
WELL WORKOVER PROJECT

RECEIVED
OCT 25 1999
OIL CON. DIV.
DIST. 3

I. Operator and Well

Operator name & address Koch Exploration Company 20 E. Greenway Plaza, Houston, TX 77046							OGRID Number 012807	
Contact Party Debbie Snow							Phone 713-544-7334	
Property Name Carle					Well Number #2		API Number 30-045-0940000	
UL	Section 20	Township 30N	Range 11W	Feet From The 77725	North/South Line North	Feet From The 1,635	East/West Line East	County San Juan

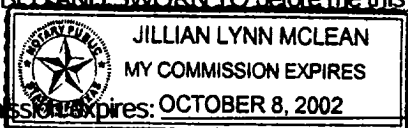
II. Workover

Date Workover Commenced: 1/15/99	Previous Producing Pool(s) (Prior to Workover): Pictured Cliffs
Date Workover Completed: 2/4/99	

- III. Attach a description of the Workover Procedures performed to increase production.
IV. Attach a production decline curve or table showing at least twelve months of production prior to the workover and at least three months of production following the workover reflecting a positive production increase.
V. AFFIDAVIT:

State of Texas)
) ss.
County of Harris)
Debbie Snow, being first duly sworn, upon oath states:
1. I am the Operator, or authorized representative of the Operator, of the above-referenced Well.
2. I have made, or caused to be made, a diligent search of the production records reasonably available for this Well.
3. To the best of my knowledge, this application and the data used to prepare the production curve and/or table for this Well are complete and accurate.

Signature Debbie Snow Title Engineering Asst Date 10-19-99
SUBSCRIBED AND SWORN TO before me this 19 day of October, 1999.

 Jillian Lynn McLean
Notary Public

FOR OIL CONSERVATION DIVISION USE ONLY:

VI. CERTIFICATION OF APPROVAL:

This Application is hereby approved and the above-referenced well is designated a Well Workover Project and the Division hereby verifies the data shows a positive production increase. By copy hereof, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project was completed on 2/4/99 ss

Signature District Supervisor <u>SS</u>	OCD District <u>5</u>	Date <u>12/23/99</u>
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VII. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT: _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

5. LEASE DESIGNATION AND SERIAL NO.

SF078402A/SF078138

6. IF INDIAN, ALIOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME, WELL NO.

CARLE #2

9. API WELL NO.

30-045-0940000

10. FIELD AND POOL, OR WILDCAT

Blanco Mesa Verde

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 20, T-30N, R-11W
NMAPM

12. COUNTY OR PARISH

San Juan

13. STATE

NM

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other 99 FEB -9 AM 9:482. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEPEN ☒ PLUG BACK ☐ DIFF. REVER. ☐ Other

3. NAME OF OPERATOR 070 FARMINGTON, NM

Koch Exploration Company

3. ADDRESS AND TELEPHONE NO. P.O. Box 489 Aztec, NM 87410 (505)334-9111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 1635' FEL + 777 FNL

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

15. DATE SPUDDED 1-15-99 16. DATE T.D. REACHED 1/20/99 17. DATE COMPL. (Ready to prod.) 2-4-99 18. ELEVATIONS (DP, RKB, RT, OR, ETC.)* 5723' GL 19. ELEV. CASINGHEAD 5723' GL

20. TOTAL DEPTH, MD & TVD 5000' 21. PLUG BACK T.D., MD & TVD 4718' 22. IF MULTIPLE COMPL., HOW MANY? 1 23. INTERVALS DRILLED BY Rotary 24. ROTARY TOOLS CABLE TOOLS

25. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 4020'-4619' (Mesa Verde) 26. WAS DIRECTIONAL SURVEY MADE NO

27. WAS WELL CORDED NO

28. TYPE ELECTRIC AND OTHER LOGS RUN GR-CNL-LOT and GR-CBL

29. CARING RECORD (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
10 3/4"	36 #	155'	14 3/4"	Surface - 125 SKS	
7"	20 #	2070'	8 3/4"	200' from CBL - 175 SKS	
4 1/2"	11.6 #	4790'	6 1/4"	Surface - 395 SKS	

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/8"	4585'	

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
4020-4028, 4032-4034, 4195-4201 w/2-spf; 4032, 4386, 4392, 4394, 4397, 4400, 4403, 4406 4429, 4434, 4439, 4446, 4450, 4456, 4461, 4463, 4465, 4472, 4476, 4495, 4555, 4556, 4561, 4573, 4575, 4577, 4580, 4586, 4588, 4594, 4600, 4619 w/1-spf		DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 4020-4201 50,000# sand; 41,700 gals fluid 4382-4619 100,000# sand; 82,500 gals fluid	

33. PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
2-1-99		Flowing - To be sold when connected				Shut in	
DATE OF TEST	HOURS TESTED	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
2-3-99	13	1/2"		1/2 BBL	2450	60 BBL	
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)	
SI-620	SI-1040			2450			

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available.

SIGNED: Donald L. J. TITLE: Operations Manager DATE: 2/7/99

* (See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OPERATOR

SUBMITTED FOR RECORD
FEB 11 1999
SUN

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

RECEIVED

5. Lease Designation and Serial No.
SF-078402A/SF078138

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA. Agreement Designation

NA

8. Well Name and No.

Carle

9. API Well No.

2

10. Field and Pool, or Exploratory Area

Pictured Cliff (Deepen to MV)

11. County or Parish, State

San Juan County
New Mexico

SUBMIT IN TRIPLICATE 070 FARMINGTON, NM

1. Type of Well

☐ Oil Well

☒ Gas Well

☐ Other

2. Name of Operator

Koch Exploration Company

3. Address and Telephone No.

P.O. Box 489 Aztec, New Mexico 87410 (505) 334-9111

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec. 20, T30N, R11W
1635' FEL & 777' FNL

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

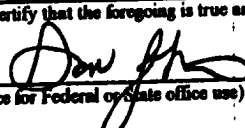
TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☒ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other Spud Notice _____	☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spudded Well 1/15/99

I hereby certify that the foregoing is true and correct

Signed 
(This space for Federal or State office use)

Title Operations Manager

Date 1/19/99

Approved by
Conditions of approval, if any:

Title

Date

ACCEPTED FOR RECORD

FEB 11 1999

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OPERATOR

FARMINGTON DISTRICT OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
SF-078402A

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

6. If Indian, Allottee or Tribe Name

NA

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Koch Exploration Company

3. Address and Telephone No.

P.O. Box 489 Aztec, New Mexico 87410 (505) 334-9111

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec. 20, T30N, R11W
1635' FEL & 777' FNL

7. If Unit or CA, Agreement Designation
NA

8. Well Name and No.

Carle 2

9. API Well No.

30-345-094000

10. Field and Pool, or Exploratory Area

Blanco Mesa Verde

11. County or Parish, State

San Juan County
New Mexico

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other 1st Delivery of Well
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Compelled Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1st Delivered Well on 2/18/99 to EPFS

I hereby certify that the foregoing is true and correct

Signed (This space for Federal or State office use)

Title Operations Manager

Date 2/25/99

Approved by
Conditions of approval, if any:

Title _____ Date _____

ACCEPTED FOR RECORD

MAR 05 1999

FARMINGTON FIELD OFFICE
BY

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side
OPERATOR

Carle #2 (T30N-R11W, Sec. 20 NW/4)

PC: Deepen to Mesa Verde

Completion Procedure

300457029 39800

1. MIRU Big 'A' daylight completion rig and auxiliary equipment.
2. NU BOP.
3. TIH w/ 3-7/8" bit on tbg and CO 4-1/2" csg to PBTD.
4. Load hole w/ 1% KCl wtr. TOOH w/ tbg & bit.
5. RU Bluejet & RIH w/ GR-CCL-CBL, log GR-CBL from TD (4950') to Int Csg Shoe @ 2025'.
RIH w/ GR-GSL and log GR-GSL from TD 2025' (Int. Csg).
6. RIH w/ select-fire perforating guns and perf Point Lookout/ MV w/ 25-Shots.
7. Pump 1000-Gals 15% HCl w/ Ball Sealers to BD Point Lookout/MV perfs.
8. RIH w/ junk basket on W/L to retrieve Ball Sealers. (If necessary NU Tree Saver)
9. Slick-water frac Point Lookout/MV w/ 87,500-Gals 1% KCl water and 100,000# 20/40 AZ SD @ 50 BPM as follows:
 - a) 20,000-Gals 1% KCl Slick-water pad
 - b) 10,000-Gals 1% KCl Slick-water w/ 1.0 ppg 20/40 AZ SD
 - c) 20,000-Gals 1% KCl Slick-water w/ 1.5 ppg 20/40 AZ SD
 - d) 30,000-Gals 1% KCl Slick-water w/ 2.0 ppg 20/40 AZ SD
 - e) 3,150-Gals 1% KCl Slick-water flush
10. (If necessary ND tree-saver)
11. RIH w/ CIBP on W/L and set @ 4500'. Begin loading hole w/ 1% KCl wtr as soon as CIBP is set, test CIBP to 3000#.
12. RIH w/ select-fire perforating guns and perf Menefee/MV w/ 25-Shots.
13. Pump 1000-Gals 15% HCl w/ Ball Sealers to BD Menefee/MV perfs.
14. RIH w/ junk basket on W/L to retrieve Ball Sealers. (If necessary NU Tree Saver)
15. Slick-water frac Menefee/MV w/ 47,200-Gals 1% KCl water and 50,000# 20/40 AZ SD @ 50 BPM as follows:
 - a) 10,000-Gals 1% KCl Slick-water pad
 - b) 5,000-Gals 1% KCl Slick-water w/ 1.0 ppg 20/40 AZ SD
 - c) 10,000-Gals 1% KCl Slick-water w/ 1.5 ppg 20/40 AZ SD
 - d) 15,000-Gals 1% KCl Slick-water w/ 2.0 ppg 20/40 AZ SD
 - e) 2,850-Gals 1% KCl Slick-water flush
16. (If necessary ND tree-saver)

4382
4619
.32

(50)

USE FRAC EOPT
ON B/D

4020
4200

(32)

.32

17. NU flow-back manifold. Begin immediate flow-back on $\frac{1}{4}$ " Choke (minimum of 12-Hrs), switch to $\frac{1}{2}$ " Choke, minimum total flow-back time of 36-Hrs. ND Frac valve.
18. TIH w/ 3-7/8" mill on tbg and CO SD, from Menefee/MV Frac, and DO CIBP @ 4500'.
19. Cont. TIH w/ 3-7/8" mill on tbg and CO SD, from Point Lookout/MV Frac, to PBTD.
20. TOOH w/ mill and string float on tbg.
21. TIH w/ expendable check, 1-Jt 2-3/8" tbg, 'P' Nipple on 2-3/8" production tbg, land tbg hanger, secure lock-downs.
22. NU WH. Pump 5-Bbls of 1% KCl wtr down tbg, drop ball, and pump out expendable check.
23. RD and MO Big 'A' daylight completion rig.

Prior to Deepening.

LEASE NAME: CARLE

DATE: 08-27-1999

WELL NAME: 2

TIME: 09:29:12

FIELD: AZTEC (PICTURE CLIFFS) PC

FILE: CAR2PC

CNTY/ST SAN JUAN, NM

OPERATOR: KOCH EXPL CO

PRIOR TO DEEPENING

FORMATION: PICTURED CLIFFS

DEEPEN TO MV, COMPLETE 2/4/99

PROD. START: 11 / 1970

PRODUCTION FORECAST REPORT

(HISTORY ENDS 11/1998)

PROJ. START: 12 / 1998

***** 8/8TH PRODUCTION *****					***** NET PRODUCTION *****				
MTH/YR	OIL	GAS	CUM OIL	CUM GAS	OIL	GAS	CUM OIL	CUM GAS	RATIO
-----	BBL-----	MCF-----	MB-----	MMF-----	BBL-----	MCF-----	MB-----	MMF-----	-----
PRIOR			0.000	814.518			0.000	56.983	0
12/98	0.0	154.6	0.000	814.673	0.0	154.6	0.000	57.138	0
S.TOT.	0.0	154.6			0.0	154.6			0
1/99	0.0	153.9	0.000	814.827	0.0	153.9	0.000	57.292	0
2/99	0.0	153.2	0.000	814.980	0.0	153.2	0.000	57.445	0
3/99	0.0	152.6	0.000	815.132	0.0	152.6	0.000	57.597	0
4/99	0.0	151.9	0.000	815.284	0.0	151.9	0.000	57.749	0
5/99	0.0	151.2	0.000	815.435	0.0	151.2	0.000	57.901	0
6/99	0.0	150.5	0.000	815.586	0.0	150.5	0.000	58.051	0
7/99	0.0	149.9	0.000	815.736	0.0	149.9	0.000	58.201	0
8/99	0.0	149.2	0.000	815.885	0.0	149.2	0.000	58.350	0
9/99	0.0	148.6	0.000	816.034	0.0	148.6	0.000	58.499	0
10/99	0.0	147.9	0.000	816.181	0.0	147.9	0.000	58.647	0
11/99	0.0	147.3	0.000	816.329	0.0	147.3	0.000	58.794	0
12/99	0.0	146.7	0.000	816.475	0.0	146.7	0.000	58.941	0
S.TOT.	0.0	1802.9			0.0	1802.9			0
1/ 0	0.0	146.1	0.000	816.622	0.0	146.1	0.000	59.087	0
2/ 0	0.0	145.5	0.000	816.767	0.0	145.5	0.000	59.232	0
3/ 0	0.0	144.9	0.000	816.912	0.0	144.9	0.000	59.377	0
4/ 0	0.0	144.3	0.000	817.056	0.0	144.3	0.000	59.521	0
5/ 0	0.0	143.7	0.000	817.200	0.0	143.7	0.000	59.665	0
6/ 0	0.0	143.1	0.000	817.343	0.0	143.1	0.000	59.808	0
7/ 0	0.0	142.5	0.000	817.485	0.0	142.5	0.000	59.951	0
8/ 0	0.0	142.0	0.000	817.627	0.0	142.0	0.000	60.093	0
9/ 0	0.0	141.4	0.000	817.769	0.0	141.4	0.000	60.234	0
10/ 0	0.0	140.9	0.000	817.910	0.0	140.9	0.000	60.375	0
11/ 0	0.0	140.3	0.000	818.050	0.0	140.3	0.000	60.515	0
12/ 0	0.0	139.8	0.000	818.190	0.0	139.8	0.000	60.655	0
S.TOT.	0.0	1714.4			0.0	1714.4			0

LEASE NAME: CARLE

DATE: 08-27-1999

WELL NAME: 2

TIME: 09:29:12

FIELD: AZTEC (PICTURE CLIFFS) PC

FILE: CAR2PC

CNTY/ST SAN JUAN, NM

OPERATOR: KOCH EXPL CO

PRIOR TO DEEPENING

FORMATION: PICTURED CLIFFS

DEEPEN TO MV, COMPLETE 2/4/99

PROD. START: 11 / 1970

PRODUCTION FORECAST REPORT

(HISTORY ENDS 11/1998)

PROJ. START: 12 / 1998

***** 8/8TH PRODUCTION *****					***** NET PRODUCTION *****					
MTH/YR	OIL	GAS	CUM OIL	CUM GAS	OIL	GAS	CUM OIL	CUM GAS	RATIO	
-----	BBL-----	MCF-----	MB-----	MMF-----	BBL-----	MCF-----	MB-----	MMF-----	-----	
1/ 1	0.0	139.2	0.000	818.329	0.0	139.2	0.000	60.794	0	
2/ 1	0.0	138.7	0.000	818.468	0.0	138.7	0.000	60.933	0	
3/ 1	0.0	138.2	0.000	818.606	0.0	138.2	0.000	61.071	0	
4/ 1	0.0	137.7	0.000	818.744	0.0	137.7	0.000	61.209	0	
5/ 1	0.0	137.1	0.000	818.881	0.0	137.1	0.000	61.346	0	
6/ 1	0.0	136.6	0.000	819.017	0.0	136.6	0.000	61.483	0	
7/ 1	0.0	136.1	0.000	819.153	0.0	136.1	0.000	61.619	0	
8/ 1	0.0	135.6	0.000	819.289	0.0	135.6	0.000	61.754	0	
9/ 1	0.0	135.1	0.000	819.424	0.0	135.1	0.000	61.889	0	
10/ 1	0.0	134.6	0.000	819.559	0.0	134.6	0.000	62.024	0	
11/ 1	0.0	134.2	0.000	819.693	0.0	134.2	0.000	62.158	0	
12/ 1	0.0	133.7	0.000	819.827	0.0	133.7	0.000	62.292	0	
S.TOT.	0.0	1636.9			0.0	1636.9			0	
1/ 2	0.0	133.2	0.000	819.960	0.0	133.2	0.000	62.425	0	
2/ 2	0.0	132.7	0.000	820.093	0.0	132.7	0.000	62.558	0	
3/ 2	0.0	132.3	0.000	820.225	0.0	132.3	0.000	62.690	0	
4/ 2	0.0	131.8	0.000	820.357	0.0	131.8	0.000	62.822	0	
5/ 2	0.0	131.3	0.000	820.488	0.0	131.3	0.000	62.953	0	
6/ 2	0.0	130.9	0.000	820.619	0.0	130.9	0.000	63.084	0	
7/ 2	0.0	130.4	0.000	820.749	0.0	130.4	0.000	63.215	0	
8/ 2	0.0	130.0	0.000	820.879	0.0	130.0	0.000	63.345	0	
9/ 2	0.0	129.6	0.000	821.009	0.0	129.6	0.000	63.474	0	
10/ 2	0.0	129.1	0.000	821.138	0.0	129.1	0.000	63.603	0	
11/ 2	0.0	128.7	0.000	821.267	0.0	128.7	0.000	63.732	0	
12/ 2	0.0	128.3	0.000	821.395	0.0	128.3	0.000	63.860	0	
S.TOT.	0.0	1568.3			0.0	1568.3			0	
1/ 3	0.0	127.8	0.000	821.523	0.0	127.8	0.000	63.988	0	
2/ 3	0.0	127.4	0.000	821.650	0.0	127.4	0.000	64.115	0	
3/ 3	0.0	127.0	0.000	821.777	0.0	127.0	0.000	64.242	0	
4/ 3	0.0	126.6	0.000	821.904	0.0	126.6	0.000	64.369	0	
5/ 3	0.0	126.2	0.000	822.030	0.0	126.2	0.000	64.495	0	
6/ 3	0.0	125.8	0.000	822.156	0.0	125.8	0.000	64.621	0	
7/ 3	0.0	125.4	0.000	822.281	0.0	125.4	0.000	64.746	0	
8/ 3	0.0	125.0	0.000	822.406	0.0	125.0	0.000	64.871	0	
9/ 3	0.0	124.6	0.000	822.531	0.0	124.6	0.000	64.996	0	
10/ 3	0.0	124.2	0.000	822.655	0.0	124.2	0.000	65.120	0	
11/ 3	0.0	123.8	0.000	822.778	0.0	123.8	0.000	65.244	0	
12/ 3	0.0	123.4	0.000	822.902	0.0	123.4	0.000	65.367	0	
S.TOT.	0.0	1507.0			0.0	1507.0			0	

LEASE NAME: CARLE

DATE: 08-27-1999

WELL NAME: 2

TIME: 09:29:12

FIELD: AZTEC (PICTURE CLIFFS) PC

FILE: CAR2PC

CNTY/ST SAN JUAN, NM

OPERATOR: KOCH EXPL CO

PRIOR TO DEEPENING

FORMATION: PICTURED CLIFFS

DEEPEN TO MV, COMPLETE 2/4/99

PROD. START: 11 / 1970

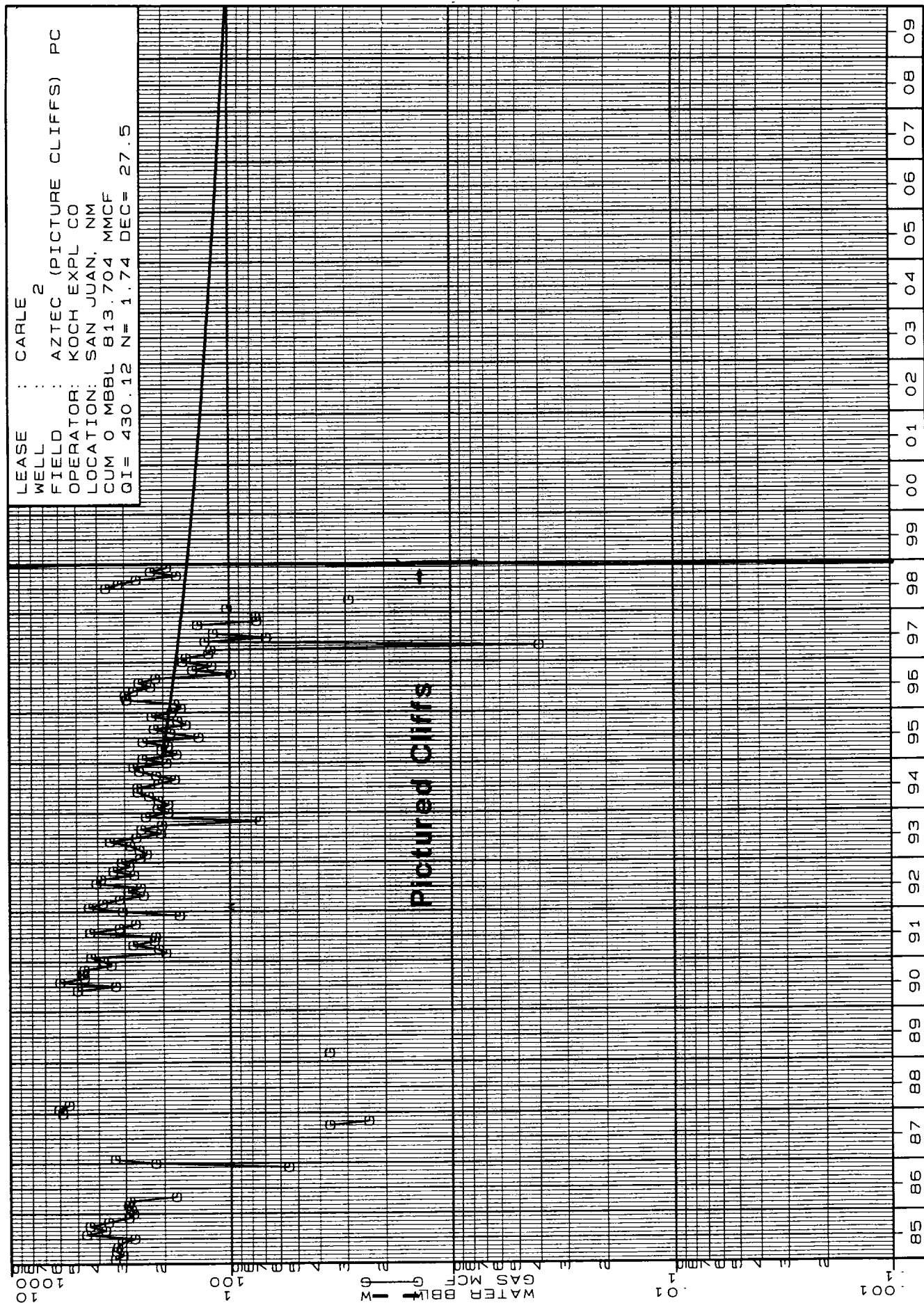
PRODUCTION FORECAST REPORT

(HISTORY ENDS 11/1998)

PROJ. START: 12 / 1998

***** 8/8TH PRODUCTION *****					***** NET PRODUCTION *****					
MTH/YR	OIL	GAS	CUM OIL	CUM GAS	OIL	GAS	CUM OIL	CUM GAS	RATIO	
-----	BBL-----	MCF-----	MB-----	MMF-----	BBL-----	MCF-----	MB-----	MMF-----	-----	
1/ 4	0.0	123.0	0.000	823.025	0.0	123.0	0.000	65.490	0	
2/ 4	0.0	122.6	0.000	823.148	0.0	122.6	0.000	65.613	0	
3/ 4	0.0	122.3	0.000	823.270	0.0	122.3	0.000	65.735	0	
4/ 4	0.0	121.9	0.000	823.392	0.0	121.9	0.000	65.857	0	
5/ 4	0.0	121.5	0.000	823.513	0.0	121.5	0.000	65.979	0	
6/ 4	0.0	121.2	0.000	823.634	0.0	121.2	0.000	66.100	0	
7/ 4	0.0	120.8	0.000	823.755	0.0	120.8	0.000	66.220	0	
8/ 4	0.0	120.4	0.000	823.876	0.0	120.4	0.000	66.341	0	
9/ 4	0.0	120.1	0.000	823.996	0.0	120.1	0.000	66.461	0	
10/ 4	0.0	119.7	0.000	824.115	0.0	119.7	0.000	66.581	0	
11/ 4	0.0	119.4	0.000	824.235	0.0	119.4	0.000	66.700	0	
12/ 4	0.0	119.0	0.000	824.354	0.0	119.0	0.000	66.819	0	
S.TOT.	0.0	1451.9			0.0	1451.9			0	
1/ 5	0.0	118.7	0.000	824.472	0.0	118.7	0.000	66.938	0	
2/ 5	0.0	118.3	0.000	824.591	0.0	118.3	0.000	67.056	0	
3/ 5	0.0	118.0	0.000	824.709	0.0	118.0	0.000	67.174	0	
4/ 5	0.0	117.7	0.000	824.826	0.0	117.7	0.000	67.292	0	
5/ 5	0.0	117.3	0.000	824.944	0.0	117.3	0.000	67.409	0	
6/ 5	0.0	117.0	0.000	825.061	0.0	117.0	0.000	67.526	0	
7/ 5	0.0	116.7	0.000	825.177	0.0	116.7	0.000	67.643	0	
8/ 5	0.0	116.3	0.000	825.294	0.0	116.3	0.000	67.759	0	
9/ 5	0.0	116.0	0.000	825.410	0.0	116.0	0.000	67.875	0	
10/ 5	0.0	115.7	0.000	825.525	0.0	115.7	0.000	67.991	0	
11/ 5	0.0	115.4	0.000	825.641	0.0	115.4	0.000	68.106	0	
12/ 5	0.0	115.0	0.000	825.756	0.0	115.0	0.000	68.221	0	
S.TOT.	0.0	1402.0			0.0	1402.0			0	

Projection Prior to Deepening (Deepened 2/99)



After Deepening

LEASE NAME: CARLE
WELL NAME: 2
FIELD: BLANCO (MESAVERDE)
CNTY/ST: SAN JUAN, NM
OPERATOR: KOCH EXPL CO
FORMATION: MESAVERDE
PROD. START: 11 / 1970
PROJ. START: 1 / 1999

DATE: 08-27-1999
TIME: 08:35:04
FILE: CAR2

PROJECTION AFTER DEEPEN TO MV

DEEPEN TO MV, COMPLETED 2/4/99

PRODUCTION FORECAST REPORT

(HISTORY ENDS 7/1999)

***** 8/8TH PRODUCTION *****					***** NET PRODUCTION *****				
MTH/YR	OIL	GAS	CUM OIL	CUM GAS	OIL	GAS	CUM OIL	CUM GAS	RATIO
-----	BBL-----	MCF-----	MB-----	MMF-----	BBL-----	MCF-----	MB-----	MMF-----	-----
PRIOR			0.000	813.704			0.000	56.169	0
1/99	0.0	0.0	0.000	813.704	0.0	0.0	0.000	56.169	0
2/99	150.0	10697.0	0.150	824.401	150.0	10697.0	0.150	66.866	14
3/99	198.0	28434.0	0.348	852.835	198.0	28434.0	0.348	95.300	7
4/99	106.0	19871.0	0.454	872.706	106.0	19871.0	0.454	115.171	5
5/99	0.0	16330.0	0.454	889.036	0.0	16330.0	0.454	131.501	0
6/99	0.0	13730.0	0.454	902.766	0.0	13730.0	0.454	145.231	0
7/99	0.0	9535.0	0.454	912.301	0.0	9535.0	0.454	154.766	0
8/99	0.0	9561.6	0.454	921.862	0.0	9561.6	0.454	164.328	0
9/99	0.0	9100.1	0.454	930.963	0.0	9100.1	0.454	173.428	0
10/99	0.0	8694.4	0.454	939.657	0.0	8694.4	0.454	182.122	0
11/99	0.0	8334.1	0.454	947.991	0.0	8334.1	0.454	190.456	0
12/99	0.0	8011.5	0.454	956.003	0.0	8011.5	0.454	198.468	0
S.TOT.	454.0	142298.7			454.0	142298.7			3
1/ 0	0.0	7720.6	0.454	963.723	0.0	7720.6	0.454	206.188	0
2/ 0	0.0	7456.7	0.454	971.180	0.0	7456.7	0.454	213.645	0
3/ 0	0.0	7215.8	0.454	978.396	0.0	7215.8	0.454	220.861	0
4/ 0	0.0	6994.8	0.454	985.391	0.0	6994.8	0.454	227.856	0
5/ 0	0.0	6791.3	0.454	992.182	0.0	6791.3	0.454	234.647	0
6/ 0	0.0	6603.0	0.454	998.785	0.0	6603.0	0.454	241.250	0
7/ 0	0.0	6428.1	0.454	1005.213	0.0	6428.1	0.454	247.678	0
8/ 0	0.0	6265.3	0.454	1011.478	0.0	6265.3	0.454	253.943	0
9/ 0	0.0	6113.2	0.454	1017.591	0.0	6113.2	0.454	260.056	0
10/ 0	0.0	5970.6	0.454	1023.562	0.0	5970.6	0.454	266.027	0
11/ 0	0.0	5836.7	0.454	1029.399	0.0	5836.7	0.454	271.864	0
12/ 0	0.0	5710.6	0.454	1035.109	0.0	5710.6	0.454	277.574	0
S.TOT.	0.0	79106.7			0.0	79106.7			0
1/ 1	0.0	5591.6	0.454	1040.701	0.0	5591.6	0.454	283.166	0
2/ 1	0.0	5479.1	0.454	1046.180	0.0	5479.1	0.454	288.645	0
3/ 1	0.0	5372.6	0.454	1051.553	0.0	5372.6	0.454	294.018	0
4/ 1	0.0	5271.4	0.454	1056.824	0.0	5271.4	0.454	299.289	0
5/ 1	0.0	5175.2	0.454	1061.999	0.0	5175.2	0.454	304.464	0
6/ 1	0.0	5083.7	0.454	1067.083	0.0	5083.7	0.454	309.548	0
7/ 1	0.0	4996.3	0.454	1072.079	0.0	4996.3	0.454	314.544	0
8/ 1	0.0	4913.0	0.454	1076.992	0.0	4913.0	0.454	319.457	0
9/ 1	0.0	4833.3	0.454	1081.825	0.0	4833.3	0.454	324.291	0
10/ 1	0.0	4756.9	0.454	1086.582	0.0	4756.9	0.454	329.047	0
11/ 1	0.0	4683.8	0.454	1091.266	0.0	4683.8	0.454	333.731	0
12/ 1	0.0	4613.6	0.454	1095.880	0.0	4613.6	0.454	338.345	0
S.TOT.	0.0	60770.6			0.0	60770.6			0

LEASE NAME: CARLE

DATE: 08-27-1999

WELL NAME: 2

TIME: 08:35:04

FIELD: BLANCO (MESAVERDE)

FILE: CAR2

CNTY/ST: SAN JUAN, NM

OPERATOR: KOCH EXPL CO

PROJECTION AFTER DEEPEN TO MV

FORMATION: MESAVERDE

DEEPEN TO MV, COMPLETED 2/4/99

PROD. START: 11 / 1970

PRODUCTION FORECAST REPORT

(HISTORY ENDS 7/1999)

PROJ. START: 1 / 1999

***** 8/8TH PRODUCTION *****					***** NET PRODUCTION *****					
MTH/YR	OIL	GAS	CUM OIL	CUM GAS	OIL	GAS	CUM OIL	CUM GAS	RATIO	
-----	BBL-----	MCF-----	MB-----	MMF-----	BBL-----	MCF-----	MB-----	MMF-----	-----	
1/ 2	0.0	4546.2	0.454	1100.426	0.0	4546.2	0.454	342.891	0	
2/ 2	0.0	4481.4	0.454	1104.908	0.0	4481.4	0.454	347.373	0	
3/ 2	0.0	4419.0	0.454	1109.327	0.0	4419.0	0.454	351.792	0	
4/ 2	0.0	4359.0	0.454	1113.686	0.0	4359.0	0.454	356.151	0	
5/ 2	0.0	4301.1	0.454	1117.987	0.0	4301.1	0.454	360.452	0	
6/ 2	0.0	4245.2	0.454	1122.232	0.0	4245.2	0.454	364.697	0	
7/ 2	0.0	4191.2	0.454	1126.423	0.0	4191.2	0.454	368.888	0	
8/ 2	0.0	4139.1	0.454	1130.562	0.0	4139.1	0.454	373.027	0	
9/ 2	0.0	4088.6	0.454	1134.651	0.0	4088.6	0.454	377.116	0	
10/ 2	0.0	4039.8	0.454	1138.690	0.0	4039.8	0.454	381.156	0	
11/ 2	0.0	3992.6	0.454	1142.683	0.0	3992.6	0.454	385.148	0	
12/ 2	0.0	3946.8	0.454	1146.630	0.0	3946.8	0.454	389.095	0	
S.TOT.	0.0	50750.0			0.0	50750.0			0	
1/ 3	0.0	3902.4	0.454	1150.532	0.0	3902.4	0.454	392.997	0	
2/ 3	0.0	3859.3	0.454	1154.391	0.0	3859.3	0.454	396.857	0	
3/ 3	0.0	3817.5	0.454	1158.209	0.0	3817.5	0.454	400.674	0	
4/ 3	0.0	3776.9	0.454	1161.986	0.0	3776.9	0.454	404.451	0	
5/ 3	0.0	3737.4	0.454	1165.723	0.0	3737.4	0.454	408.188	0	
6/ 3	0.0	3699.1	0.454	1169.422	0.0	3699.1	0.454	411.888	0	
7/ 3	0.0	3661.8	0.454	1173.084	0.0	3661.8	0.454	415.549	0	
8/ 3	0.0	3625.4	0.454	1176.709	0.0	3625.4	0.454	419.175	0	
9/ 3	0.0	3590.1	0.454	1180.299	0.0	3590.1	0.454	422.765	0	
10/ 3	0.0	3555.6	0.454	1183.855	0.0	3555.6	0.454	426.320	0	
11/ 3	0.0	3522.0	0.454	1187.377	0.0	3522.0	0.454	429.842	0	
12/ 3	0.0	3489.3	0.454	1190.866	0.0	3489.3	0.454	433.332	0	
S.TOT.	0.0	44236.8			0.0	44236.8			0	
1/ 4	0.0	3457.4	0.454	1194.324	0.0	3457.4	0.454	436.789	0	
2/ 4	0.0	3426.3	0.454	1197.750	0.0	3426.3	0.454	440.215	0	
3/ 4	0.0	3395.9	0.454	1201.146	0.0	3395.9	0.454	443.611	0	
4/ 4	0.0	3366.2	0.454	1204.512	0.0	3366.2	0.454	446.978	0	
5/ 4	0.0	3337.3	0.454	1207.849	0.0	3337.3	0.454	450.315	0	
6/ 4	0.0	3308.9	0.454	1211.158	0.0	3308.9	0.454	453.624	0	
7/ 4	0.0	3281.3	0.454	1214.440	0.0	3281.3	0.454	456.905	0	
8/ 4	0.0	3254.2	0.454	1217.694	0.0	3254.2	0.454	460.159	0	
9/ 4	0.0	3227.8	0.454	1220.922	0.0	3227.8	0.454	463.387	0	
10/ 4	0.0	3201.8	0.454	1224.124	0.0	3201.8	0.454	466.589	0	
11/ 4	0.0	3176.5	0.454	1227.300	0.0	3176.5	0.454	469.765	0	
12/ 4	0.0	3151.7	0.454	1230.452	0.0	3151.7	0.454	472.917	0	
S.TOT.	0.0	39585.3			0.0	39585.3			0	

LEASE NAME: CARLE

DATE: 08-27-1999

WELL NAME: 2

TIME: 08:35:04

FIELD: BLANCO (MESAVERDE)

FILE: CAR2

CNTY/ST SAN JUAN, NM

OPERATOR: KOCH EXPL CO

PROJECTION AFTER DEEPEN TO MV

FORMATION: MESAVERDE

DEEPEN TO MV, COMPLETED 2/4/99

PROD. START: 11 / 1970

PRODUCTION FORECAST REPORT

(HISTORY ENDS 7/1999)

PROJ. START: 1 / 1999

***** 8/8TH PRODUCTION *****					***** NET PRODUCTION *****					
MTH/YR	OIL	GAS	CUM OIL	CUM GAS	OIL	GAS	CUM OIL	CUM GAS	RATIO	
-----	BBL-----	MCF-----	MB-----	MMF-----	BBL-----	MCF-----	MB-----	MMF-----	-----	
1/ 5	0.0	3127.4	0.454	1233.579	0.0	3127.4	0.454	476.044	0	
2/ 5	0.0	3103.6	0.454	1236.683	0.0	3103.6	0.454	479.148	0	
3/ 5	0.0	3080.3	0.454	1239.763	0.0	3080.3	0.454	482.228	0	
4/ 5	0.0	3057.5	0.454	1242.821	0.0	3057.5	0.454	485.286	0	
5/ 5	0.0	3035.1	0.454	1245.856	0.0	3035.1	0.454	488.321	0	
6/ 5	0.0	3013.2	0.454	1248.869	0.0	3013.2	0.454	491.334	0	
7/ 5	0.0	2991.7	0.454	1251.861	0.0	2991.7	0.454	494.326	0	
8/ 5	0.0	2970.5	0.454	1254.831	0.0	2970.5	0.454	497.296	0	
9/ 5	0.0	2949.8	0.454	1257.781	0.0	2949.8	0.454	500.246	0	
10/ 5	0.0	2929.5	0.454	1260.711	0.0	2929.5	0.454	503.176	0	
11/ 5	0.0	2909.6	0.454	1263.620	0.0	2909.6	0.454	506.085	0	
12/ 5	0.0	2890.0	0.454	1266.510	0.0	2890.0	0.454	508.975	0	
S.TOT.	0.0	36058.3			0.0	36058.3			0	

Projection Following Deepening

